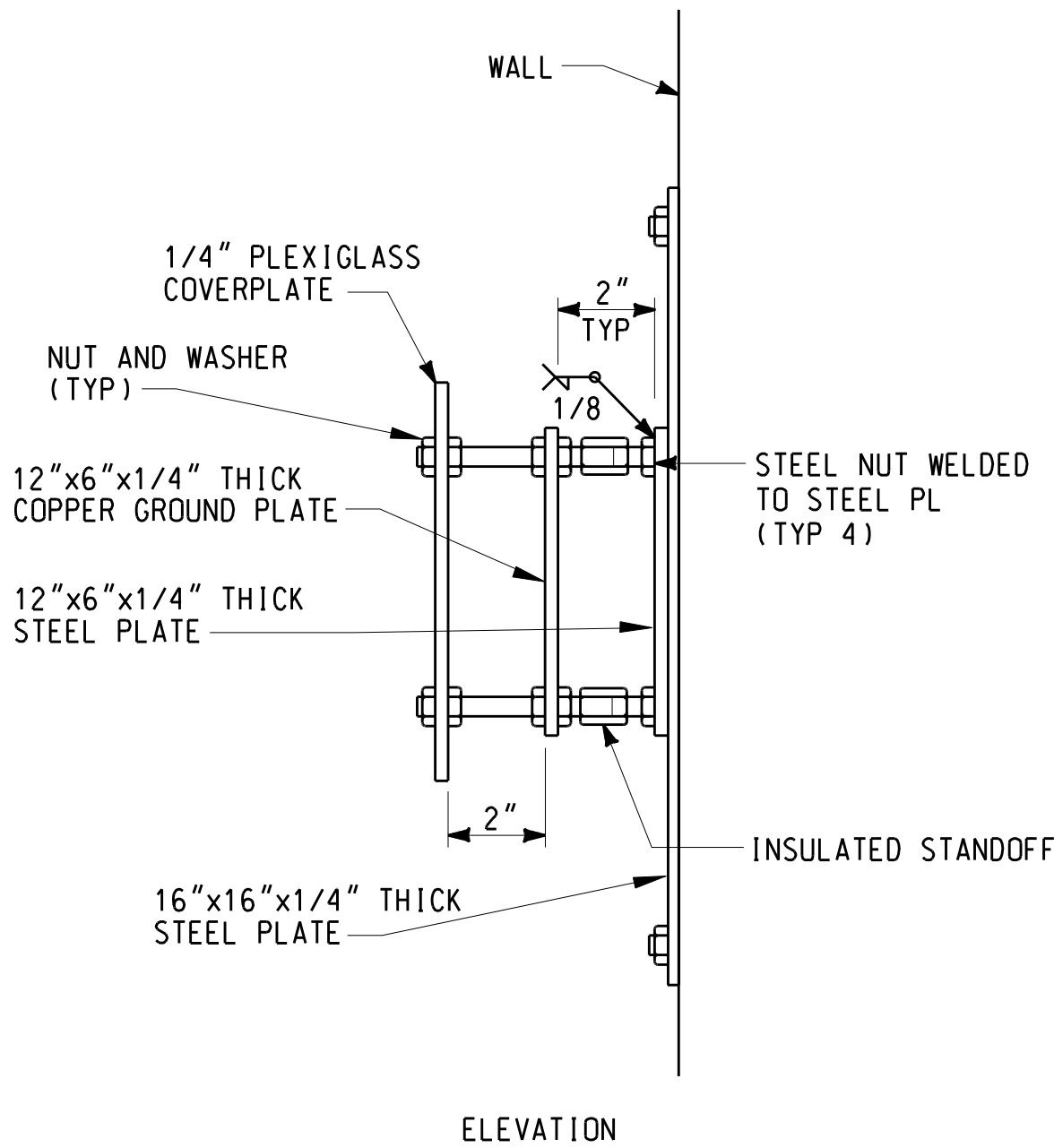


NOTES:

- ALL PLATES EXCEPT MAIN PLATE SHALL BE: 12" X 6" X 1/4" COPPER. INSTALL ACROSS THE TOP WIDTH OF CABLE TRAY SO THE PLATE IS PERPENDICULAR TO THE TRAY. USE 1 5/8" X 1 5/8" 12 GA. CHANNEL TO SPAN THE TOP OF THE CABLE TRAY AND TO ATTACH THE PLATE.
- GROUND PLATE IS DESIGNED FOR POLYPHASE CORP. ANTENNA SURGE ARRESTOR MODEL 15-NEMP.
- PROVIDE 1/4" PLEXIGLASS COVER PLATE SIMILAR TO THAT SHOWN IN DETAIL 2.

1 TYPICAL GROUND PLATE
E660 NOT TO SCALE



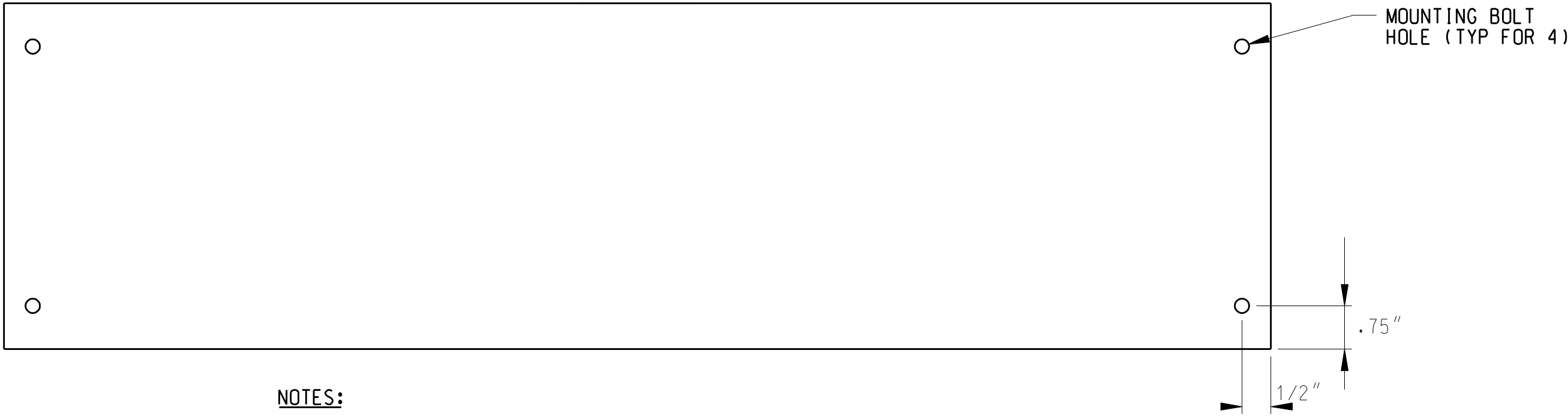
NOTES:

- THE MAIN GROUND PLATE SHALL HAVE A CLEAR PLASTIC COVER THAT BEARS THE CAPTION "MAIN GROUND PLATE" IN BLACK 3/8" HIGH LETTERS AND GREEN SLASHES AROUND THE CAPTION. THE MAIN GROUND PLATE CONDUCTOR SHALL BE COLOR-CODED GREEN AT EACH END. CONNECT #4/0 AWG GREEN WITH YELLOW TRACER CONDUCTOR BETWEEN MAIN PLATE AND SUPPLEMENTAL PLATE AS SHOWN ON E820.
- THE SUPPLEMENTAL GROUND PLATE SHALL BE ESTABLISHED AT THE OPPOSITE SIDE OF THE FACILITY TO THE MAIN GROUND PLATE AND SHALL BE COLOR CODED GREEN/ORANGE. THE SUPPLEMENTAL GROUND PLATE SHALL BE CONNECTED TO THE EES WITH A 500 KCMIL CONDUCTOR. THE CONDUCTOR SHALL BE EXOTHERMICALLY WELDED AT THE EES AND SHALL BE EXOTHERMICALLY WELDED TO THE PLATE. THE LENGTH OF THIS CONDUCTOR SHALL BE 30% LONGER OR SHORTER THAN THE CONDUCTOR BETWEEN THE MAIN GROUND PLATE AND THE EES. THE SUPPLEMENTAL GROUND PLATE SHALL HAVE A CLEAR PLASTIC COVER THAT BEARS THE CAPTION, "SUPPLEMENTAL GROUND PLATE" IN BLACK 3/8" HIGH LETTER AND GREEN SLASHES AROUND THE CAPTION. THE SUPPLEMENTAL GROUND PLATE CONDUCTOR SHALL BE COLOR-CODED GREEN WITH RED TRACER.
- THE TELCO GROUND PLATE SHALL HAVE A CLEAR PLASTIC COVER THAT BEARS THE CAPTION "TELCO GROUND PLATE" IN BLACK 3/8" HIGH LETTERS AND GREEN SLASHES AROUND THE CAPTION. THE TELCO GROUND PLATE CONDUCTOR SHALL BE COLOR-CODED GREEN. PROVIDE #4/0 AWG GREEN CONDUCTOR TO EES AND BARE #6 AWG TO STRUCTURAL STEEL AS SHOWN ON E820.
- THE MULTIPOINT GROUND PLATES SHALL INCLUDE ALL PLATES NOT SPECIFICALLY LABELED OTHERWISE, INCLUDING THE BASE PLATE AND ANY OTHER PLATE WITH "M" BESIDE IT. THESE PLATES SHALL HAVE A GREEN PLASTIC COVER THAT BEARS THE CAPTION "MULTIPOINT GROUND PLATE" IN BLACK 3/8" HIGH LETTERS AND WITH DISTINGUISHING BRIGHT ORANGE SLASHES. THE GROUND CONDUCTORS PLATE TO PLATE OR TO BUS SHALL BE COLOR-CODED GREEN WITH AN ORANGE TRACER AT EACH END. IF THESE CONDUCTORS ARE ROUTED THROUGH CABLE TRAYS, THEY SHOULD BE LABELED EVERY THREE FEET.

2 MAIN/SUPPLEMENTAL/TELCO/MULTIPOINT GROUND PLATES
E660 NOT TO SCALE

NOTES

- ALL GROUND CONNECTIONS SHALL BE BONDED VIA EXOTHERMIC WELD.
- PLEXIGLASS COVERPLATES SHALL BE 1" GREATER THAN GROUND PLATE DIMENSIONS ON ALL SIDES.
- MACHINE CORNERS OF BOTH COVER PLATES AND GROUND PLATES TO BREAK SHARP CORNERS.
- FOR EACH CABLE TRAY MOUNTED GROUND PLATE, PROVIDE ONE ROW OF NINE 5/16" HOLES EVENLY SPACED ALONG EACH SIDE. (TOTAL 18 HOLES)



NOTES:

- MAIN GROUND PLATE SHALL BE 24" X 6" X 1/4" COPPER AS SHOWN ABOVE. SUPPLEMENTAL PLATE (NOT SHOWN) SHALL BE EXACTLY LIKE MAIN PLATE, BUT ONLY 12" X 6" X 1/4". INSTALL ONTO WALL AS SHOWN IN DETAIL 2/ THIS SHEET.
- PROVIDE 1/4" PLEXIGLASS COVER AND STEEL BACK PLATE SIMILAR TO THAT SHOWN IN DETAIL 2/ THIS SHEET.
- ALL CONECTIONS TO MAIN AND SUPPLEMENTAL GROUND PLATE SHALL BE EXOTHERMIC.

3 MAIN/SUPPLEMENTAL GROUND PLATE
E660 NOT TO SCALE

SCALES SHOWN FOR 22" X 34" SHEET. ADJUST SCALES FOR OTHER SIZES.				PAGE		OF 63																																																							
				<table><tr><td>REV</td><td>APPROVED DATE</td><td>DESCRIPTION</td><td>JCN</td><td>REDLINE DATE</td><td>APVD</td></tr><tr><td colspan="6">DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</td></tr><tr><td colspan="6">ATHENS AIRPORT TRAFFIC CONTROL TOWER ATCT - MAJOR SUSTAIN AND SEISMIC MITIGATION ELECTRICAL GROUNDING - GROUND PLATE DETAILS - SHEET 1</td></tr><tr><td colspan="4">ATHENS (ATHENS MUNICIPAL AIRPORT)</td><td colspan="2">GA</td></tr><tr><td colspan="2">REVIEWED BY</td><td colspan="2">SUBMITTED BY</td><td colspan="2">APPROVED BY</td></tr><tr><td colspan="2"></td><td colspan="2">VIRGIL HOOPER, PE.</td><td colspan="2">MARK BEEKMAN</td></tr><tr><td colspan="2">DESIGNED</td><td colspan="2">ANL</td><td colspan="2">DATE 03/31/2010</td></tr><tr><td colspan="2">DRAWN</td><td colspan="2">ANL</td><td colspan="2">JCN 804669</td></tr><tr><td colspan="2">CHECKED</td><td colspan="2">TJH</td><td colspan="2">DRAWING NO. AHN-D-ATCT-E660</td></tr></table>				REV	APPROVED DATE	DESCRIPTION	JCN	REDLINE DATE	APVD	DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						ATHENS AIRPORT TRAFFIC CONTROL TOWER ATCT - MAJOR SUSTAIN AND SEISMIC MITIGATION ELECTRICAL GROUNDING - GROUND PLATE DETAILS - SHEET 1						ATHENS (ATHENS MUNICIPAL AIRPORT)				GA		REVIEWED BY		SUBMITTED BY		APPROVED BY				VIRGIL HOOPER, PE.		MARK BEEKMAN		DESIGNED		ANL		DATE 03/31/2010		DRAWN		ANL		JCN 804669		CHECKED		TJH		DRAWING NO. AHN-D-ATCT-E660	
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